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TITLE: Antistatic agent for plastics used in moulding - comprises cpd. having nitrogen-fluorine linkage, and provides antistaticity which does not deteriorate on washing.

DERWENT CLASS: A60 A85 E13 V04 X25

PATENT ASSIGNEE(S): (DAIK) DAIKIN KOGYO KK

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP--08100169	A	19960416	(199625) *	28	<--

APPLICATION DETAILS:

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JP--08100169	A	1994JP-0238119	19940930 <--

PRIORITY APPLN. INFO: 1994JP-0238119 19940930

AB JP 08100169 A UPAB: 19960918

An antistatic agent (P) contains at least one cpd. (A) contg. N-F linkage.

(A) is pref. N-fluoropyridinium cpd. (A1) of formula (I) or (II). In formulae, R1-R10 = H, halogen, nitro, hydroxyl, cyano, carbamoyl, 1-5C alkyl opt. substd. by halogen or hydroxyl, 1-5C alkoxy, 6-10C aryloxy, 1-5C acyl, 1-5C acyloxy, or 6-10C aryl, 1-15C alkenyl opt. substd. by halogen or 6-10C aryl, 1-15C alkynyl opt. substd. halogen or 6-10C aryl, 6-15C aryl opt. substd. by halogen or 1-5C alkyl, 1-15C acyl opt. substd. by halogen, 2-15C alkoxycarbonyl opt. substd. by halogen or 6-10C aryl, 7-15C aryloxycarbonyl opt. substd. by halogen or 1-5C alkyl, 1-15C alkylsulphonyl opt. substd. by halogen or 6-10C aryl, 6-15C arylsulphonyl opt. substd. by halogen or 1-5C alkyl, 1-15C alkylsulphinyl opt. substd. by halogen or 6-10C aryl, 6-15C arylsulphinyl opt. substd. by halogen or 1-5C alkyl, 1-15C alkoxy opt. substd. by halogen or 6-10C aryl, 6-15C aryloxy opt. substd. by halogen or 1-5C alkyl, 1-15C acyloxy opt. substd. by halogen, 1-15C acylthio opt. substd. by halogen, 1-15C alkanesulphonyloxy opt. substd. by halogen or 6-10C aryl, 6-15C arenesulphonyloxy opt. substd. by halogen or 1-5C alkyl, 1-5C alkyl substd. carbamoyl opt. substd. by 6-10C aryl, 6-10C aryl substd. carbamoyl opt. substd. by 1-5C alkyl, 1-5C acyl substd. amino opt. substd. by halogen, N-fluoropyridinium base opt. substd. by halogen or 6-10C aryl or 1-5C alkyl, 6-15C N-alkylpyridinium base opt. substd. by halogen or 6-10C aryl or 1-5C alkyl, 11-15C N-arylpyridinium base opt. substd. by halogen or 6-10C aryl or 1-5C alkyl, or organic polymer chain gp.; R1-R10 may form ring structure(s) opt. through at least one hetero atom by various combinations; at least one of R6, R7, R8, R9 and R10 is a gp. of formula -RSO3-; R = single bond or 1-5C alkylene gp.; X- = conjugate base of a Bronsted acid.

USE - (P) is suitable for giving antistaticity to various plastics, which are usually used for moulding housings of various electric appliances and electronic parts by adding into them.

ADVANTAGE - (P) has excellent antistaticity and durability. The antistaticity realised by (P) does not deteriorate even by washing or wiping. Additionally, (P) does not reduce properties of the moulded plastic prods., partic. mechanical strengths.

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